

Product Data Sheet

*RADEL® R is a Polyphenylsulfone produced by Amoco Performance Products. Radel R is in the same performance category of products like Polysulfone and Ultem® (PEI). Radel R has increased performance versus Polysulfone and Ultem in terms of temperature, impact strength and chemical resistance.

Radel R has exceptional resistance to repeated steam autoclaving without loss of dimensional stability or physical properties.

Radel R comes in both opaque and transparent grades. The transparent grades are R -5000 and R-5700, the opaque grade is R-5100. Hyde has processed the R -5100 grade. We can also produce the transparent grades upon request.

Radel R series products are targeted at a number of industries and applications. The initial target market is the medical industry. In applications for surgical tools and instruments Radel is used because of its resistance to autoclave sterilization. A second market for Radel is electronics because of its temperature resistance and dielectric properties.

Property	Test Method	Units	R-5000 Series
Tensile Strength	D638	PSI	10100
Tensile Modulus	D638	PSI	340000
Tensile Elongation			
@ Break	D638	%	60-120
Flexural Strength	D790	PSI	13200
Flexural Modulus	D790	PSI	350000
Compressive Strength	D695	PSI	14350
Shear Strength	D732	PSI	9100
Notched Izod	D256	FT-LB/IN	13
Tensile Impact	D1822	FT-LBS/IN ²	190
HDT			
@ 66 PSI	D648	°F	417
@ 264 PSI	D648	°F	405
Specific Gravity	D1505		1.29
Water Absorption	D570	%	0.37

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A. L. HYDE COMPANY

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